

Hawaii Department of Health (DOH)
FFY 2015-2016 Clean Water Act 106 Groundwater Workplan
Groundwater Protection Program (GWPP)

October 1, 2014 - September 30, 2016

EPA Grant # I 00939414 ~ \$315,000 (FFY 2015) + \$315,000 (FFY 2016) = \$630,000

FFY2015 1st QUARTER REPORT (October 1, 2014 to December 31, 2014)

Reporting: DOH will submit quarterly progress reports and an End-of-Year Summary Report to EPA. Quarterly reports are due on January 15, April 15, July 15 and the End-of-Year Summary Report is due on October 15.

Note: The grant award issued on October 1, 2014 was for \$316,077.00. The budget was for \$315,000.00.

Program Objective/Outcome	Task	Cost	Schedule
1) Administration Objective: Administer general programmatic supervisory functions to ensure effective implementation of the GWPP. Ensure timely grant award, submittal of reports, documenting progress, appropriate use of federal and state funds and fully staff positions. Outcomes: Timely fiscal and grant actions.	a) Generate Interim and Annual Final Financial Report (FFR) b) Program Oversight and Management c) FFY 2016-2018 Workplan and Budget	FY2015 \$70,981 FY2016 \$70,981	a) Periodically between October 2014 - September 2016 b) Quarterly report to EPA on 15th day after quarter ends. c) Draft - 03/31/2016; Pre-Final - 06/30/2016; Final – 08/01/2016
FFY2015 – QUARTER 1	<u>Program Oversight:</u> <u>FY2014 End-of-Year Report:</u> 11/2014 FY2014 CWA106 (GW) Grant End-of-Year Report – submitted to EPA for review and approval. 10/10: SDWB (GW) Staff Meeting to discuss short term Groundwater Program activities. 10/23: SDWB (GW) Staff Meeting to discuss FFY2013-14 End of Year Workplan Report. Drawdown: \$4,000.00		

Program Objective/Outcome	Task	Cost	Schedule
2) Program Planning and Implementation Objectives: <ol style="list-style-type: none"> 1. Increase the knowledge base of the status of groundwater quality around the state. 2. Develop and/or implement groundwater monitoring projects. 3. Protect drinking water sources through modeling and monitoring. Outcomes: <ol style="list-style-type: none"> 1. Collaboration between federal, state, and county water agencies. 2. Groundwater Monitoring Project List is updated with focus on groundwater quality and protection programs. 3. Modeling provides enhanced groundwater vulnerability tool and means to design and implement groundwater monitoring projects. 	<ol style="list-style-type: none"> a) Utilize the Source Water Assessment and Protection (SWAP) Program to continue to delineate the water source capture zone for new and proposed drinking water sources, inventory potential contaminating activities within the capture zone, and determine the water source's susceptibility to contamination b) Acquire scientific/environmental data via groundwater monitoring projects to assess the status of groundwater quality in those project areas or from specific contamination sources. c) Review Comprehensive Leaching Risk Assessment System (CLEARS) model. Update data as needed. d) Update the 2014 Hawaii Comprehensive State Groundwater Protection Program Strategy/Plan (HCSGPPS/P). e) Revise Groundwater Quality Assurance Program Plan (GW QAPP) to utilize Environmental Management Division Quality Management Plan format. 	FY2015 \$147,456 FY2016 \$147,456	<ol style="list-style-type: none"> a) On-going: as requested by existing and new water systems. b) Continue current/approved FFY2012-2014 projects on 10/01/2014; Submit Draft List of New Projects - 12/31/2014; Submit Final List for Approval - 03/31/2015; Complete projects as listed by 9/30/2016. c) Review annually by 07/31/2015 and 7/31/2016 d) Final Plan – 12/31/2014 e) GWQAPP Draft 3/31/2016; Final 9/30/2016
FFY2015 – QUARTER 1	GROUNDWATER MONITORING PROJECTS 10/2014: Drafted Project List for GWP (FFY2015-16). 10/2014: Discussion with John Peard (HEER) on elevated Arsenic in soils and detection in shallow groundwater (2). 10/2014 & 11/2014: Work on GW106 End of Year Monitoring Projects Report (Lahaina Tracer Study, Hawaiian Paradise Park, Historical Groundwater Contamination, Arsenic in Soil/Groundwater, Deep Monitoring Wells). 11/2014: Discussion with Rick Zimmer (Eurofin Lab) on possible PPCPs monitoring (13). 11/2014: Discussion with Lenore Ohye (CWRM) on recycled water monitoring projects with DOA funding (14). 12/26: Discussion with Lenore Ohye on chloride measurement requirements and water purveyor request for training/meeting (DOH and CWRM requirements, methods for testing, and requirement/procedures for reporting). Pesticides in Groundwater 10/03: Meeting with Fenix Grange (HEER) –on pesticides of interest for groundwater monitoring. 10/10: Review email from Fenix grange on proposed/future monitoring of groundwater for pesticides and reply to Kauai County Council. Arrange meeting with HEER and DOA-Pesticides to discuss pesticides and groundwater. 10/13: Meeting with HEER and DOA-Pesticides to discuss pesticides and groundwater monitoring. 12/10: Discussions with (1) Fenix Grange (HEER) on meeting to discuss pesticide project and (2) on pesticide project meeting and LCMS analysis update. 12/12: Attend Proposed Pesticide Project Meeting (with HEER, DOA, DOH, SLD) at SLD. 12/19: Discussion with Wanda Chang on Proposed Pesticide Study Scope. 12/22: Review Fenix Grange email on Pesticide Study sampling needs. 12/23: Meeting with Wanda Chang on Pesticide Study sampling needs. Conference call with Tom Matsuda (DOA) on		

Program Objective/Outcome	Task	Cost	Schedule
	<p>Pesticide Study sampling needs.</p> <p>12/24: Meeting with Wanda Chang on Pesticide Study sampling needs and prepare reply to Fenix. Discussion with Mel Hamano on issues related to use of drinking water lab capabilities/resources for Proposed Pesticide Study sampling (use of matching funds, use of equipment purchase with federal funds, request to lower existing drinking water detection levels, addition of contaminants for analysis, QA requirements, who is paying for additional resource needs.)</p> <p><u>CLERS PROJECT (funding for sampling part of project no longer from CWA106 (GW))</u></p> <p>On-going: Work on draft Quality Assurance Project Plan.</p> <p>12/2014: Reviewed draft Reclaimed Water Modeling Report.</p> <p><u>HAWAII COMPREHENSIVE STATE GROUNDWATER PROTECTION PROGRAM PLAN</u></p> <p>12/2014: Prepared draft of Section 1 of the Groundwater Protection Plan.</p> <p>On-going: Discussions/outlines on development of HCSGWPP.</p> <p><u>COLLABORATION WITH OTHER AGENCIES/PROGRAMS/PROJECTS</u></p> <p><u>Wastewater Branch</u></p> <p>10/2014: Provide support for HAR-11-62 regulations revision, technical assistance for cesspool ban and upgrades. Meeting with Gary Gill/staff to discuss Wastewater rule changes & cesspool ban (13). Meeting with Sina/Mark (WWB) to discuss criteria for critical wastewater areas for drinking water (SWAP-CZB) and surface water.</p> <p>11/2014: Provide support for HAR-11-62 regulations revision, technical assistance for cesspool ban and upgrades. Provide technical and GIS support for the proposed HAR-11-62 revisions. Meeting with Director of Health/staff on wastewater rules-cesspool ban issues (31).</p> <p><u>CWRM Aquifer Designation</u></p> <p>10/2014: Work on West Hawaii SWAP model revision. Attend Kona Water Roundtable in support of the Keauhou Aquifer WMA designation petition (08). Keauhou Aquifer Site Visit with CWRM and Technical/Planning Meeting Presentations (09)</p> <p>11/2014: Provide technical support to CWRM for the Keauhou Aquifer WMA designation petition. Provide CWRM with groundwater modeling support for the Keauhou WMA designation petition. Meeting with CWRM Staff on Keauhou SWAP and GW Flow Model (17) Drafted HDOH comments on Keauhou Aquifer WMA designation petition.</p> <p>12/2014: Drafted HDOH comments on Keauhou Aquifer WMA designation petition. Conducted Coastal Discharge Modeling (at the request of CWRM) for the Keauhou Aquifer WMA designation petition.</p> <p><u>Clean Water Branch</u></p> <p><u>1 - Kahaluu Surface Water Contamination</u></p> <p>10/2014: Provide support for the Kahaluu contaminated surface water problem. Participated in SDWB/CWB/UH-G&G applied science collaboration meeting. Met with CWB and Kahaluu Neighborhood Board Chair on Kahaluu contamination issue. Meeting with Gary Gill/staff on Kahaluu water contamination and OSDS investigation (23).</p>		

Program Objective/Outcome	Task	Cost	Schedule
	Discussion with Watson (CWB) on Kahaluu Sampling issues – monitoring of drinking water wells. 2 - Kauai Dairy 12/2014: Reviewed comments on the proposed Kauai Dairy. Mapped the UIC well location in S. Kauai in support of the Kauai Dairy evaluation. Drawdown: \$33,000.00		

Program Objective/Outcome	Task	Cost	Schedule
3) Public Participation Objective: Improve overall understanding of GWP concerns/issues within the State through a broader array of technical assistance/education/outreach opportunities. Outcome: Greater public involvement in the planning and implementation of GWPP.	a) SDWB will collaborate with other government agencies at meetings and/or public presentations.	FY2015 \$26,947 FY2016 \$26,947	On-going: as needed with other Department of Health water branches; Department of Land and Natural Resources – Commission on Water Resource Management; Department of Agriculture; US Geological Survey; University of Hawaii Water Resources Research Center, County water departments, and others.
FFY2015 – QUARTER 1	10/2014: Hawaii Nature Center request for copies of DOH Groundwater Poster (100 copies provided). Drawdown: \$2,000.00		

Program Objective/Outcome	Task	Cost	Schedule
4) Data Management Objective: To ensure that current, accurate data regarding the groundwater quality, and wellhead/groundwater/source water protection activities, are available for State, Federal and public uses. Outcomes: Complete and accurate data availability.	a) Update Groundwater Contamination Viewer b) Review for Quality Assurance/Quality Control (QA/QC) and upload all groundwater data from SDWB projects to Safe Drinking Water Information System (SDWIS) Viewer or Groundwater Contamination Viewer or Underground Injection Control (UIC) System. c) Develop and implement the next phase of the Underground Injection Control (UIC) data system to import, export, store, and manage the data that is submitted or gathered outside of the e-Permitting portal such as wastewater quality monitoring reports (lab analyses) and inspection reports (annual status reports and site inspection reports). d) Enter groundwater data collected under this grant agreement in EPA's STORET-database.	FY2015 \$54,983 FY2016 \$54,983	a) Weekly via Groundwater Contamination Viewer connection to SDWIS/State; Annually by 12/31/2014 and 12/31/2015 with other agency data, as provided. b) QA/QC 2014 and newer Data by 11/30/2015; Upload quarterly starting 03/15/2016 c) implement next phased UIC System by 9/30/2016 d) GWPP monitoring projects data stored via STORET-compatible format by 9/30/2016
FFY2015 – QUARTER 1	NO ACTIVITIES FOR a,b, c, and d. Drawdown: \$0		

Program Objective/Outcome	Task	Cost	Schedule
5) Potential Groundwater Contamination Incidents/Events Response Objective: Respond to potential and actual groundwater contamination incidents/events. Outcomes: State and public water systems prepared to assess Groundwater contamination from potential contaminating incidents/events.	a) Develop response plans for sampling, testing and transport of groundwater samples under various scenarios in order to anticipate and resolve potential logistical barriers. To determine the impact of emergency situations on groundwater quality. b) Use remaining funds to coordinate groundwater monitoring at the Red Hill Bulk Fuel Storage Facility (review of groundwater monitoring plan and modeling activities).	FY2015 \$14,633 FY2016 \$14,633	a) Draft: 02/29/2016; Final: 06/30/2016 b) On-going: pending coordination with U.S. Navy, Honolulu Board of Water Supply (HBWS), and DOH Solid & Hazardous Waste Branch (SHWB).
FFY2015 – QUARTER 1	<u>Red Hill Bulk Fuel Storage Facility</u> 10/2014: Attend Red Hill update meeting on report to legislature. SDWB staff discussion on Red Hill Task Force recommendations-sampling/QA issues (31). SDWB/SHWB-UST staff meeting to review proposed revisions to Red Hill Legislative Report (31). 11/2014: Represent HDOH at Red Hill Task Force Meeting. Provide GIS support for the Red Hill Task Force. Met with CWRM on Red Hill issue. Review Oil/Water Interface Measurement Data. 12/2014: Provide GWP input for Red Hill Tank 5 Workplan. Participate in conference call with EPA on Red Hill fuel spill. Draft approach for groundwater and contaminant fate and transport assessment for the Red Hill Fuel Spill. Drawdown: \$4,000.00		